

MOLLUSKS COLLECTED IN NORTHERN WEST VIRGINIA

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The Biology Department of Marietta College proposed and partly financed a trip into West Virginia, where new territories were opened in the study of the distribution of mollusks. Two days, November 7th and 8th, 1930, were spent in collecting at West Union, Grafton, and Pennsboro. The drought of the past year affected collecting a great deal. However, a small region in Middle Island Creek, located at West Union, submitted a large group of mussels. The creek was dry and most of the mussels had recently died. *Campeloma rufum* was found in abundance, many of them living in the mud of the river bed, some distance from water.

At Grafton collecting was very poor, probably due to drought or high altitude. The streams were contaminated by mine and factory wastes and revealed no sign of living things whatsoever.

I wish to thank David T. Jones, instructor of Biology of Marietta College, who accompanied me on the trip and supervised this study; also, Prof. H. R. Eggleston, who reviewed the collection of mussels. The records from Powhattan Point were collected and submitted by A. Blickle and John Jordan. Two records from Parkersburg were secured by J. W. Miller, and another by Roy Ash; and one record from Williamstown, by Christine Stage.

Many West Virginia mussel records are given in A. E. Ortmann's Monograph of Naiades of Pennsylvania, Part III, Memoirs Car. Mus., Vol. VIII, No. 1, 1919. Previous land records seem rare and extremely scattered. The following list, while not complete, is inserted before the list of our recent collections, for the convenience of future workers:

SOME PREVIOUS WEST VIRGINIA MOLLUSCAN RECORDS

- Polygyra tridentata juxtidentens* Pils. West Virginia: Pilsbry, H. A., A classified catalog of American land shells with localities (continued), THE NAUTILUS, Vol. XI, No. 7, Nov., 1897.
- Polygyra fallax* (Say) (equals *Helix introferens* Bld.). West Virginia: Pilsbry, as above.
- Omphalina kopnodes* (W. G. B.). West Virginia: Pilsbry, Class. Catal., THE NAUTILUS, Vol. XI, No. 11, March, 1898.
- Gastrodonta interna* (Say). West Virginia: Pilsbry, same reference as for *Omphalina* above, p. 132.
- Hyalina* (now *Striatura* or *Striaturops*) *ferrea* (Morse). Randolph Co., West Virginia: Sterki, Victor, Some notes on Zonitidae, THE NAUTILUS, Vol. VII, No. 2, June, 1893, p. 17.
- Vitrea* (now *Glyphyalinia*) *rhoadsi* Pilsbry. Wirt Co., West Virginia: Fox, Wm. J., Pilsbry, H. A., New American land shells, NAUTILUS, Vol. XII, No. 9, Jan., 1899, p. 102.
- Zonites* (now *Paravitrea*) *capsella* (Gould). Mountains of West Virginia: Binney, W. G., Man. Am. Land Shells, p. 221, 1885.
- Pyramidula* (now *Anguispira*) *alternata mordax* (Shuttl.) West Virginia, Pilsbry, H. A., Class. Catal., NAUTILUS, Vol. XI, No. 12, April, 1898, p. 140.
- Planorbis bicarinatus* Say (now *Helisoma antrosa* [Conrad]). West Virginia records: Four miles from Romney; Kanawha River, forty miles south of Ohio River, Wirt Co.; North River, Sedan, Hampshire Co.; Warm Spring Creek, Morgan Co.; Salt Sulphur Spring, Monroe Co.; Patterson's Creek, Mineral Co.; Potomac River, Cherry Run (Pils.); Potomac River, Harper's Ferry (Walker). Walker, Bryant, Notes on *Planorbis* II, *Planorbis bicarinatus*, THE NAUTILUS, Vol. XXIII, No. 2, pp. 27-28, June, 1909.
- Sphaerium ohioense* Sterki. West Virginia: Baker, F. C., Moll. of Wis. II, p. 341, 1928.

RECENT COLLECTIONS IN WEST VIRGINIA

The numbers in parentheses below refer to the number of specimens taken.

Polygyra albolabris (Say). West Union in Doddridge Co. (2).

Polygyra hirsuta (Say). Grafton in Taylor Co. (2); West Union (11); Pennsboro in Ritchie Co. (1).

Polygyra monodon (Rackett). West Union (2).

Polygyra pennsylvanica (Green). West Union (one identifiable fragment).

Polygyra profunda (Say). Powhattan Point on Ohio River in Marshall Co. (4).

Polygyra thyroides (Say). Williamstown in Wood Co. (1); West Union (4); Pennsboro (2).

Polygyra tridentata (Say). Neal's Hollow near Parkersburg in Wood Co. (1); West Union (15 adults, 1 juvenile); Pennsboro (6); Powhattan Point (4).

Cochlicopa lubrica (Müller). West Union (1).

Haplotrema concavum (Say). West Union (5); Powhattan Point (4).

Mesomphix cuprea (Raf.). Powhattan Point (1).

Mesomphix inornata (Say). Powhattan Point (many); West Union (12 adults, 1 juvenile); Grafton (4).

Glyphyalinia indentata (Say). West Union (6).

Paravitrea lamellidens (Pilsbry). West Union (2).

Paravitrea multidentata (Binn.). West Union (2); Pennsboro (2).

Paravitrea capsella (Gould). Grafton (3, hardly mature).

Zonitoides arboreus (Say). Parkersburg (3).

Gastrodonta intertexta (Binn.). West Union (2).

Gastrodonta ligera (Say). Grafton (2).

Agriolimax agrestis (L.). West Union (3).

Agriolimax campestris (Binn.). West Union (1); Grafton (1).

Philomycus carolinianus (Bose). Parkersburg (1).

Pallifera dorsalis (Binn.). Pennsboro (1).

Anguispira alternata (Say). Powhattan Point (1).

Succinea ovalis Say. West Union (1 juvenile and 2 identifiable fragments).



- Helisoma antrosa* (Conrad). Pennsboro (7); West Union (1).
- Physa gyrina* Say. Pennsboro (8).
- Physa integra* Hald. West Union (18).
- Ferrissia parallela* (Hald.). West Union (2).
- Campeloma rufum* (Haldeman). West Union (many); embryonic shells of same also secured and examined.
- Somatogyrys integer* (Say) var. West Union (3).
- Amblema costata* (Raf.). Middle Island Creek near West Union (5).
- Fusconaia flava* (Raf.). Middle Island Creek near West Union (many); animal observed to be reddish.
- Pleurobema coccineum* (Conrad). Middle Island Creek near West Union (1).
- Elliptio dilatatus* (Raf.). Middle Island Creek near West Union (1).
- Strophitus rugosus* (Swainson). Middle Island Creek near West Union (6); salmon-colored naere in umbones.
- Anodonta grandis* (Say). Middle Island Creek near West Union (1).
- Lasmigona costata* (Raf.). Middle Island Creek near West Union (2).
- Obovaria subrotunda* (Raf.). Middle Island Creek near West Union (11).
- Eurynia iris* (Lea). Middle Island Creek near West Union (1).
- Lampsilis siliquoidea* (Barnes). Middle Island Creek near West Union (many). More males than females. Two old specimens resemble *Actinonaias carinata* (Barnes).
- Lampsilis ventricosa* (Barnes). Middle Island Creek near West Union (many).
- Sphaerium striatinum* (Lam.). Middle Island Creek near West Union (very many). The most abundant species found.